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SPACE AND INFORMATION SYSTEMS DIVISION

TIC - IR - 0

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Accession No. 19621

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INFORMATION RETRIEVAL:  
SYSTEMS AND TECHNOLOGY  
A LITERATURE SURVEY

15 January 1963



Prepared by

Technical Information Center

MAY 16 1963  
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**NORTH AMERICAN AVIATION, INC.**  
**SPACE and INFORMATION SYSTEMS DIVISION**



### FOREWORD

The following survey was undertaken by the Technical Information Center pursuant to the development of a machine literature searching system. The research and compilation was done by S. R. Snodey of the TIC staff under the direction of L. M. Foster, Supervisor TIC.



### ABSTRACT

This is a survey of the world's literature on information storage and retrieval produced between the years 1951-1961. A brief description of the field is given along with statistical data on the scope and growth of the literature. There are 1,914 references in the bibliography part of the survey arranged in alphabetical order by the author. A subject index follows the bibliography.





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## INTRODUCTION

Information storage and retrieval - commonly known as "IR" - is the function of organizing the powers of human intellect, mechanical and computing devices, and a definitive procedure into a system for filing and finding records of man's knowledge and experience. Business, government, industry, law, medicine, science and technology are joined in the common challenge of keeping up with all the information, past and present, required for effective performance in modern competitive society.

The systems approach to retrieving stored information proceeds from Dr. Vannevar Bush's statement that, "(Man)...has built a civilization so complex that he needs to mechanize his records more fully if he is to push his experiment to its logical conclusions and not merely become bogged down part way there by overtaxing his limited memory. His excursion may be more enjoyable if he can reacquire the privilege of forgetting the manifold things he does



not need to have immediately at hand, with some assurances that he can find them again if they prove important." [Atlantic Monthly, July 1945, page 108]

This survey of the world's literature concerning the problems involved in the storing and retrieving of document information, is an attempt to provide in a single corpus all materials indexed and abstracted by standard reference services during the years 1951-1961. This era was selected because it encompasses what might be termed the 'formative' phase of the systems approach to information handling. Elements treated during this period include indexing, classification and coding schemes; systems proposals; plans for cooperation in using information; planning of information facilities; programs for training personnel to carry out the manifold aspects of operating IR systems; and, an impressive amount of criticism and evaluation.

Most of the literature surveyed treats the specialized technology of documentation which has been variously described as the science of ordered presentation and preservation of records of knowledge involving collecting, storing and organizing



bibliographic information for optimum access and specificity; or as the art of facilitating the use of recorded specialized knowledge through its presentation, reproduction, publication, dissemination, acquisition and retrieval. The literature also shows that the most sophisticated systems in operation are used in the fields of chemistry and metallurgy.

Universal interest in this world-wide problem is evidenced by the variety of sources and the wide range of languages represented in the bibliography section of the paper.

The following tabulation is offered as a rough gauge of the number of items published in each language; however, the following factors introduce a certain amount of bias in the table: The references are drawn only from sources usually exploited in U. S. libraries; the English language version of a reference was preferred to foreign language versions of the same entry in compiling the bibliography from which the data was drawn; and the dominance of English, German and French as the languages of technical discourse provides a natural weighting in their favor.



LANGUAGE	NUMBER OF REFERENCES	PERCENTAGE OF TOTAL
English	1490	78
German	216	11
French	84	5
Dutch	27	2
Swedish	24	>1
Polish	17	<1
Italian	13	<1
Russian	12	<1
Hungarian	10	<1
Spanish	9	<1
Norwegian	2	<1
Finnish	2	<1
Belgique	1	<1
Romanian	1	<1
Japanese	1	<1
Danish	1	<1



Much has been written concerning the 'literature explosion', however, the literature growth of materials in IR related fields has followed the normal growth curve:

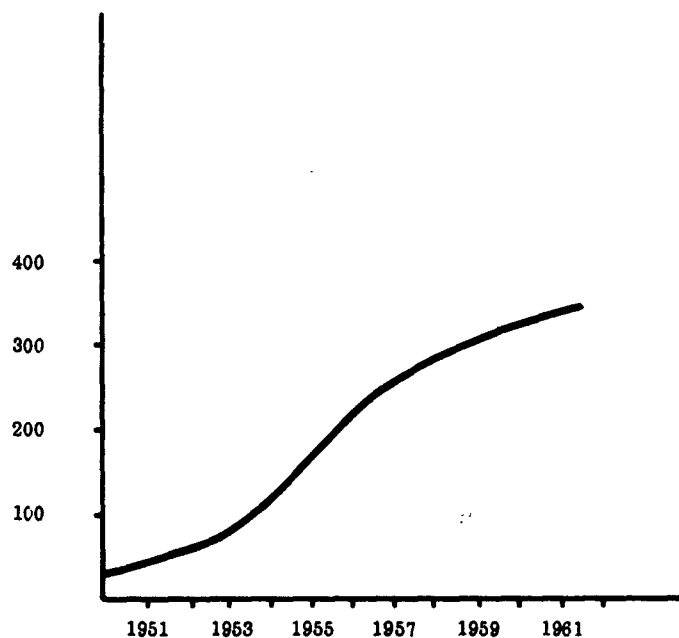


FIGURE 1

This curve, Figure 1, was derived by counting the references per year in the bibliography and is affected to a degree by some of the biases stated above, yet it is a fair representation of general literature growth in IR.



Several bibliographies on IR now in existence  
which are compiled from rather specific viewpoints  
include the following:

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Materials referenced in the bibliographic section of this survey are arranged in alphabetical order by principal author, corporate or institutional author, or title in that order of preference. At the end of each entry there is a subject code made up of a letter and a numeral which are compiled into a subject index immediately following the body of the survey. To facilitate acquisition of many of the documents referenced the AD or PB numbers are given when known. The Armed Services Technical Information Agency (Astia) assigns document numbers called "AD-Numbers" to many contractually-generated research and development reports and makes copies of such reports available to properly qualified government contractors. These "AD-Numbers" have been listed when known. Organizations not properly qualified as government contractors, and private individuals as well, can often purchase copies of these reports from the Office of Technical Services of the Department of Commerce, Washington, D. C. The "PB" numbers are given for this purpose.



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